Ephemerides.

5

MERCURIUS PHILASTROLOGUS.

OR AN

ALMANACK

Shewing the Cœlestiall Motions and the State of this Yeare 1653.

Being the first after Bissextile,

or LEAP YEARE.

Wherein (besides the *common Account* used in *England*) is set down not onely the *New Account* used beyond the Seas, but also the Scripture Calender of dayes & months used by the *Apostles* & *Primitive Christians*.

With the foure Quarterly Revolutions, and the Eclipses of Sun and Moon, a Probable conjecture of the weather, and every thing else either usefull or necessary that can be expected in such a work.

Rectified to the *Elevation* of the Pole *Artick* 52 degrees 17 minutes, the Latitude of the famous *Universitie* of *Cambridge*.

By ROBERT NIGHTINGALE Gent.

Cœli Enarrant gloriam Dei fortis.

Printed for the Company of STATIONERS

The Julian or old Account used in England.		1653	*The Roman or Gregorian acco. used beyond Sea.*	
	1	The Golden number	1	
	10	Circle of the Sun	10	
	11	The Epact	1	
	6	Roman Indiction	6	
	E	Dominicall Letter	E	
February	20	Shrovesunday	23	*February*
April	10	Easter-Day	13	*April*
May	15	Rogation Sunday	18	*May*
May	19	Ascension Day	22	*May*
May	29	Whit-Sunday	1	*June*
June	5	Trinity Sunday	8	*June*
Novemb.	27	Advent Sunday	30	*Novem.*

The TERMS of the LAW.

Hilary Term begins *January* 23 ends *Febr.* 12 and hath 4 Returns.

Easter Term begins *April* 27 ends *May* 23 and hath 5 Returns.

Trinity Term begins *June* 10 ends *June* 29 and hath 4 Returns.

Michael Term begins *October* 23 ends *Novemb.* 28 and hath 6 Returns.

The Act of Batchelours in *Cambridge* and *Oxford* is the first day of Lent.

The Act of Masters is in *Cambridge July* the 3, but in *Oxford July* the 8.

A Scheme

A Scheme of the Planets, Signes and Aſpects.

The face of the Scheme unmasked.

THere is not any the meaneſt Tiro who hath advanced himſelf to the ſpeculation of theſe cœleſtiall motions, but may underſtand this Scheme without explanation; and yet becauſe *ex quovis ligno non fit Mercurius*, I ſhal take a little pains to explain it for their ſakes who may be ignorant thereof, and thus I begin:

The Planets are ſeven; ♄ Saturn, ♃ Jupiter, ♂ Mars, ☉ Sol, ♀ Venus, ☿ Mercury, ☽ Luna.

The ſignes are 12. ♈ Aries, ♉ Taurus, ♊ Gemini, ♋ Cancer, ♌ Leo, ♍ Virgo, ♎ Libra, ♏ Scorpio, ♐ Sagittary, ♑ Capricorne, ♒ Aquarius, ♓ Piſces.

Man wth the Pencil of Imagination hath traced out in the heavens several Circles, amongst which the Circle of the Zodiack is not of the meanest consideration: it is divided in respect of longitude into the 12 signes beforementioned, & each of these signes is divided into 30 degrees, so that the whole Circle containes 12 times 30 that is 360 degr. in Longitude, accounted from the first point of Aries, to the last of Pisces. Under these signes the Planets continually move, & some of them make their periodical revolutiō in less, some in longer time, according to the velocitie or tarditie of their motions assigned to them by the laws of creation.

Saturne who is *Planetarum supremus & altissimus*, & the most ponderous of al the other erratical Starres passeth through the 12 signes in about 30 years, & yet he goeth in one hour two millions three hundred seventy six thousand two hundred sixty 1 miles.

Jupiter the next to Saturne, maketh his periodicall revolution through the signes in 11 years 315 dayes, & he goeth in an hour eight hundred ninety eight thousand and seven hundred miles.

Mars within the concavity of the Spheare of Jupiter, marcheth through the Zodiacke, according to his meane motion in one yeare 322 dayes, he goeth in one houre 393040 miles.

The Sun who is *oculus mundi*, and *candela Cœli* (or as *Copernicus* will have it the Earth) passeth through the 12 signes, and thereby makes his periodical revolution in 365 dayes and about hours; he goeth in one hour 259023 miles.

Venus the most resplendent starre in the firmament is moved about the Sun as her Center, and passeth through the 12 signes in one yeare.

Mercury within the Concavitie of the Spheare of Venus, finisheth his course in 1 year.

The Moon in her perambulation through the Zodiacke makes her periodicall revolution through the 12 signes in 27 dayes 7 hours 43 minutes; she goes 12770 miles in one hour.

Whilest these Cœlestiall Bodies thus move through the Zodiacal constellations they doe very often mutually aspect each other: for some times two Planets are distant a 6th part of the Zodiack, that is 2 signes or 60 degrees, and then they are in sextile aspect to each other, and thus in the precedent Scheme ♄ in ♈ beholds ♃ in ♊ with a sextile, and ♃ beholds ♂ in ♌: when

&

☉ & ☽ thus behold each other wee call the moon *Corniculata*, or *falcata*, that is the horned moon. Sometimes two Planets are distant a fourth part of the Zodiacke, that is 3 signes or 90 degrees, & this is called a quadrate aspect as *Manilius* hath it lib. 2. cap. 7. *Sed siquis contentus erit numerasse quadrata, Divisum signis mundum putet esse quaternis*: And thus in the scheme ☉ in ♎ beholds ♀ in ♒ and he ♄ in ♈ with a quadrate: when the moon thus aspects the sun we call her *semiplena* or half full of light Again sometimes they are distant a third part of the Circle (viz) 4 signes or 120 degrees, and this wee call a Trigonall, or Trine aspect, *Aut tria sub quinis signis ornare trigonum*: thus ♄ in ♈ beholds ♂ in ♌, and ☽ beholds ♀ in ♐ with a Trine, and when ☽ thus aspects ☉ wee call her *Gibbosa*, or 3 parts light. Sometimes they are distant half the Circle, or 6 signes which is 180 degrees, and this wee call an Opposition, and thus in the Scheme ☉ in ♎ opposeth ♄ in ♈; the ☽ thus aspecting ☉ is called *Plenilunium*, the full moon. Sometimes they are in the same signe, degree, & minute, & then they are said to bee in Conjunction, this is but improperly called an aspect.

The Dominion of the moon in mans body, passing under the 12 Zodiacall Constellations.

♈ Head and face.

♉ Neck and throat.

♋ Breast stomack. & ribs.

♍ Bowels and belly.

♏ Secret members.

♑ Knees.

♊ Arms and shoulders.

♌ Heart and back.

♎ Reines and loyns.

♐ Thighs.

♒ Legs.

♓ The feet.

Majestick Aries *clad in's Golden wooll,*
Commands the Head & face; the Zodiacks Bull
Rules Neck and throat: the Armes, and shoulders lye,
Subjected to the Zodiacks Gemini.
Cancer *the Breast and stomack doe obey.*
And Regall Leo, *o're the Heart doth sway*
His Royall Scepter, whilst the wanton Maid
Claimeth the Belly. Reines and loynes are wayd
By the Cœlestiall Libra. *Secrets are*
The poysnous Scorpions; *and the Thighs the share*
Of Sagittarius: *and the feeble Knees*
Fall to the Goat. *The Legs are standing fees*
Unto Aquarius, *whilst the Feet doe bend*
Their steps to Pisces, *and assignt.*

An End.

The Diary explained and the 12 months of the

YEARE unfolded.

A Yeare called *Annus quasi annulus*, because (as the *Greek* word Ἐτεαυτὸς signifieth) *in se convertitur*, is as wee shall have occasion to speak of it in our discourse either *Julian*, or *Judaicall*. The *Julian* yeare otherwise called *Annus Magnus* begins in *January*, but the *Judaical* yeare begins in *March*, but each of these years containe 12 months; the *Julian* months consisting of so many dayes as I have set down, except *February* which every fourth yeare hath one day added unto it.

The Julian months are these.		To which answer in the Judaicall Computation.	The Judaicall are these.	
			11	*month.*
January	1 *month.*		12	*month.*
February	2 *month.*		*Adar*	
March	3 *month.*		*Abid*	1 *month.*
April	4 *month.*		*Ziff*	2 *month*
May	5 *month.*		*Sivan*	3 *month.*
June	6 *month.*		*Tamus*	4 *month.*
July	7 *month.*		*Abti*	5 *month.*
August	8 *month.*		*Elul*	6 *month.*
September	9 *month.*		*Ethanim*	7 *month*
October	10 *month.*		*Bull*	8 *month.*
November	11 *month*		*Kisliu*	9 *month.*
December	12 *month.*		*Tebeth*	10 *month.*

Thus the *Julian* and *Judaicall* months agree to each other, only there is this difference, that the *Judaicall* months alwayes begin at the New moones *phasis*, or first appearing time.

And now having thus much as was necessary premised concerning the months in general, I come to explaine each month, and the severall Columnes therein contained in particular.

In every left hand page, you have at the top first the name of the month, and secondly the exact times of the New and full moons with the first and last quarters, and under these you have in every month 7 Columnes, whereof

The first containes the dayes of the month, according to the *Julian Account* used in England.

The second containes the dayes of the weeke, the *Dominicall* or Sunday Letter being B.

In the third you have all the moveable and fixed feasts, with the beginning and ending of the Terms of the Law, and the places of ♄ ♃ ♂ ☿ and ☌ with other accidents belonging to them, so often as in every month they could bee inserted.

The fourth hath in it the degree and signe the moon is in every day at Noon.

In the fifth you have the signe, degree, and minute wherein the Sun is every day at noon for every day in each month.

The sixth containes the moones age, as its usually accounted from Change, to Change.

In the seventh you have the most notable Aspects of the planets with the moon and each other, with a probable conjecture according to rules of Art what weather is like to ensue every day in each month for the most part: thus much of the left hand page.

In the right hand page you have the day of the month, and secondly the day of the weeke according to the *Roman* or New Account now used beyond the Seas and then in the two last columnes you have the names and dayes of the Judaicall months with the day of the weeke also according to Scripture Account, and that is *Kalendarium veteris Ecclesiæ quod tam Apostolis aliisque Christianis Primitivis quam ipsi Christo fuit in usu.* Thus much for the unfolding this Diary.

Full moon 3 day, 18 minutes past 5 afternoon.
Last quarter 11 day. 24 minutes past 7 at night.
New moon 19 day, 6 minutes past 6 in the morning.
First quarter 25 day, 13 minutes past 11 at night.

1	a	Newyeare			♊	25	11 ♍	53	12	△ ♄ & ☿ & △ ♂ &
2	B	♄	10	48	♋	8	22	54	13	☽ causing moist and
3	c	♃	24	28	♍	21	13	55		cloudy snowlike wea-
4	d	♂	3	32	♎	05	24	56	15	♂ ♃ & ☉ ther, blast
5	e	☿	14	29	♐	17	15	58	16	of serene wind, cold
6	f	Epiphany				29	26	59	17	✶ ♀ and ♆ remiss,
7	g	♀	16	18	♒	♍ 11	28	0	18	some store of snow,
8	a	♄	10	21	♌	23	19	1	19	△ ♃ and ☽ or cold
9	B	1 Sund aft. Ep.			♎	5	0 ♒	2	21	Apogæontem ☽ rain,
10	c	♃	26	7	♍	17	1	3	22	✶ ☿ & ☽ perate wea-
11	d	♂	7	9	♎	29	2	4	23	ther the season consi-
12	e	♀	22	51	♐	♎ 11	3	5	24	dered though it be a
13	f	♀	Retrograd.			23	4	6	25	little cold and windy
14	g	♀	17	43	♒	♐ 5	5	7	26	weather, winds and
15	a	☽ with ♆				18	6	8	27	much cold rain,
16	B	2 Sund aft. Ep			♍	2	7	10	28	□ ♄ & ♂ snow, &
17	c	♄	9	37	♌	15	8	11	29	♂ ♄ & ☉ hail toge-
18	d	♃	27	59	♍	29	9	12	30	ther, its likely here
19	e	♂	11	8	♎	♒ 13	10	13	●	great store of snow
20	f	♀	2	28	♍	28	11	14	2	□ ♂ & ☉ □ ♂ & ♆
21	g	♀	11	12	♒	♓ 13	12	14	3	♂ ☉ & ☿ Frost and
22	a	☽ Perigæon				27	13	15	4	snow with high wind
23	B	3 Sund. aft. Ep.			♈	12	14	16	5	♂ ♄ & ♀ winds &
24	c	Septuagesima				26	15	17	6	frost still, and more
25	d	♄	8	57	♌	♉ 10	16	18	7	♂ ♂ & ☽ snow yet
26	e	♃	23	51	♍	24	17	19	8	and such weather its
27	f	♂	14	56	♎	♊ 8	18	19	9	✶ ♄ & ☽ like to be
28	g	♀	12	8	♍	21	19	20	0	untill this month
29	a	♀	3	23	♒	♋ 4	20	2	1	♂ ♀ & ☽ be at an end,
30		4 Sund. aft. Ep.				18	21	22	12	♂ ♃ & ☽ cold frosts
16	c	☽ with ♄			♌	1	20	23	13	clouds, and snow.

Roman Account	da:	Sun riseth.	Sun sets.	Scripture Account.	
	1—8 3		3 57		
	8—7 54		4 6		
	16—7 42		4 1		
	24—7 28		4 12		
11	a	10 month Tebet.		19	6
12	b			20	1
13	c			21	2
14	d			22	3
15	e			23	4
16	f			24	5
17	g			25	6
18	a			26	7
19	b			27	1
20	c			28	2
21	d			29	3
22	e	11 month Shebat.		1	4
23	f			2	5
24	g			3	6
25	a			4	7
26	b			5	1
27	c			6	2
28	d			7	3
29	e			8	4
30	f			9	5
31	g			10	6
Febr. 1	b			11	7
2	c			12	1
3	d			13	2
4	e			14	3
5	f			15	4
6	g			16	5
7	a			17	6
8	b			18	7
9	c			19	1
10	d				

Full moon 2 day, at 10 before noon.
Last quarter 10 day, 57 minutes past 2 afternoon.
New moon 17 day, 9 minutes past 5 at night.
First quarter 24 day, 45 minutes past 8 at morning.

1	D	☿ Direct:			♌	13	♒	23	14	☌ ♂ and ♀ ther's
2	E	Purification				25		24		some remission of
3	F	♄ 8	15	♌	♍	8		25	16	☍ ☽ & ☉ cold and
4	G	♅ 1	54	♒		19		26	17	the winds blow yet,
5	A	♂ 18	57	♍	♎			27	18	☌ ♅ ☿ ☽ ſerene
6	B	Septuageſima				1	13	28	1	Apog: and cleare air,
7	C	♀ 24	17	♍		25		29	20	☽ in □ to but windy
8	D	☿ 4	32	♒	♍	7	♓	27	21	♆ and ☿ ſtirs up
9	E	♄ 7	48	♌		19		27	22	more high winds, and
10	F	♅ 3	14	♒	♐	1		27	23	ſtorms, ſnow and
11	G	♂ 21	26	♍		14		28	24	☍ ♄ ☿ more winds,
12	A	Feria quæ				2		28	25	and then temperate
13	B	Sexageſima.			♍	19		28	26	☌ ♅ ſerene, and very
14	C	Valentine				2		29	27	☿ ☾ at me weather,
15	D	♀ 4	1	♒	♒	7		29	28	according to theſeaſo
16	E	☿ 10	22	♒		2		29	29	☍ ♄ and ♀
17	F	♄ 7	16	♌	♓	6		28	●	brings cold rain or
18	G	♅ 4	59	♒		21		29	1	☽ Perigæon ſnow
19	A	♂ 24	28	♍	♈	6		30	2	□ ♄ and ☽ cloudy,
20	B	Shrove tuesday				21		30	3	♀ ♂ and ☽ a darke
21	C	♀ 11	21	♒	♉	6		29	4	air with ſnow, or
22	D	☿ 18	23	♒		21		29	5	cold rain, and then
23	E	Dies Cinerum			♊	5		29	6	do follow Impetuous
24	F	Matthias				18		29	-	☍ ♄ and ♅ and
25	G	♄ 6	49	♌	♋	2		29	8	very great ſtorms
26	A	♅ 6	40	♒		15		29	9	of haile and ſnow
27	B	Invocation				27		29	10	with wet.
28	C	♂ 27	31	♍	♌	10		29	11	

Roman Account.	da:		Sun riseth.	Sun sets.	Scripture Account.
	1	7 13	4 47		
	8	7 1	4 59		
	16	6 44	5 16		
	24	6 28	5 32		
11	g			11 Month Sheb.	13 4
12	a				14 5
13	b				15 6
14	c				16 7
15	d				17 8
16	e				18 9
17	f				19 10
18	g				20 11
19	a				21 12
20	b				22 13
21	c				23 14
22	d				24 15
23	e				25 16
24	f				26 17
25	g				27 18
26	a				28 19
27	b				29 20
28	c			12 month Adar.	1 21
2	d				2 22
3	e				3 23
4	f				4 24
5	g				5 25
6	a				6 26
7	b				7 27
8	c				8 28
9	d				9 29
10	e				10 30

Full moon 3 day, 37 minutes past 3 in the morning.
Last quarter 12 day, 48 minutes past 6 in the morning.
New moon 19 day, 36 minutes past 2 in the morning.
First quarter 25 day, 50 minutes past 7 at night.

1	D	♄	6	37	♌	♌	22	21	♓	28	☐ ♂ and ☿ Cold
2	E	♆	7	27	♒	♍	4	22		28	with winds begin this
3	F	♂	28	25	♏		16	23		28	month; Luna is now
4	G	☿	24	47	♒		28	24		28	eclipsed visibly.
5	A	☿	3	42	♓	♎	10	25		27	☽ Apogæon, winds
6	B	2 Sund. Lent.					22	26		27	and cloudy, still more
7	C	♄	6	22	♌	♍	4	27		27	☐ ☿ ♂ & high winds
8	D	♆	8	38	♒		16	28		26	great showers by rea-
9	E	♂	29	59	♏		28	29		26	son of *Apert. port.*
10	F	☿	2	8	♓	♐	10	♈		25	△ ♃ & ☽ bringeth
11	G	☿	13	12	♓		22	1		24	high and dry winds
12	A	Gregory.				♑	5	2		23	which still continue
13	B	3 Sund. Lent.					18	3		23	but its no news that
14	C	♄	6	10	♌	♒	2	4		23	March should blaste
15	D	♆	9	55	♒		15	5		21	△ ♄ & ☉ *Apert*
16	E	♂	1	26	♐		30	6		20	*portar.* threatens cold
17	F	☿	10	42	♓	♓	15	7		20	clouds, and suddenly
18	G	☿	25	19	♓		30	8		19	the wind ariseth and
19	A	♋	21	40	♓	♈	15	9		18	☽ perigæon blowes
20	B	4 Sund. Lent.				♉	00	10		17	✶ ♅ & ☉ blasts &
21	C	♄	6	2	♌		15	11		16	wholesome gales of
22	D	♆	11	19	♒		30	12		15	△ ☽ & ☿ fresh wind,
23	E	♂	2	31	♐	♊	14	13		14	cloudy and windy
24	F	☿	20	29	♓		28	14		13	△ ♄ & ☿ weather
25	G	Annun. Mary.				♋	11	15		12	stil doth continue with
26	A	☿	12	41	♈		24	16		11	us, ✶ ♆ & ☿ *Apert.*
27	B	5 Sund. Lent.				♌	7	17		10	♂ ♅, & ☿ ☽ *port*
28	C	♄	Direct.				19	18		9	windy weather, as it
29	D	♆	12	15	♒	♍	1	19		8	did begin so it doth
30	E	♂	2	51	♐		13	20		7	remaine till the mo-
31	F	☿	27	50	♓		25	21		5	☌ ☾ & ☿ neth ends.

Roman Account.		Sun riseth.	Sun sets.	Scripture Account.	
	days				
	1—6 16		5 44		
	8—6 2		5 58		
	16—5 46		6 14		
	24—5 30		6 30		
11	g			12 month Ader.	11 3
1	a				12 4
13	b				13 5
14	c				14 6
15	d				15 7
6	E				16 1
17	f				17 2
18	g				18 3
19	a				19 4
0	b				20 5
21	c				21 6
22	d				22 7
23	E				23 1
24	f				24 2
25	g				25 3
26	a				26 4
27	b				27 5
28	c				28 6
29	d				29 7
30	E				30 1
31	f				31 2
April				1 Month Abid, or Nisan.	1 3
2	a				2 4
3	b				3 5
4	c				4 6
5	d				5 7
6	E				6 1
7	f				7 2
8	g				8 3
9	a				9 4
10	b				10 5
					11 6

Full moon 2 day, 10 minutes past 9 at night.
Last quarter 10 day, 38 minutes past 6 at night.
New moon 17 day, 48 minutes past 10 before noon.
First quarter 24 day, 54 minutes past 8 before noon.

1	g	☽ Apogæon		♎	7	22	♈	2	13	△ ♃ ☽ very fair
2	a	☌ Retrograde		19		23		1		and temperate, serene
3	b	Palm sunday.		♏	1	24		0	15	△ ♃ & ♀ & pleasant
4	c	♄ 6 4	♌		13	25		0	16	△ ☌ and ♀ *Apert.*
5	d	♃ 13 17	♒		25	25		57	17	*port.* some showers,
6	e	♂ 2 43	♐	♐	7	26		55	18	△ ♄ & ♀ and
7	f	☿ 6 24	♈		19	27		53	19	□ ♄ & ☿ clouds with
8	g	☿ 7 45	♉	♑	2	28		51	20	moist winds, and
9	a	☊ 20 34	♓		14	29		50	21	pleasant Apri. showers
10	b	Easterday.			27	♉		48	22	□ ☿ & ☽ fair again
11	c	♄ 6 12	♌	♒	11	1		46	23	and warm, yet cloudy
12	d	♃ 14 15	♒		24	2		45	24	□ ♃ & ♀ *Apert. port.*
13	e	♂ 1 57	♐	♓	9	3		43	25	high winds arise.
14	f	☽ Perigæon.			23	4		42	26	✶ ♃ & ♀ cleare, &
15	g	♀ 16 12	♈	♈	8	5		39	27	fair, temperate and
16	a	☿ 23 6	♉		23	6		37	28	pleasant weather.
17	b	Low-sunday.		♉	8	7		35	●	□ ☉ & ♄ cloudy &
18	c	♄ 6 26	♌		23	8		33	1	moist rain & showers
19	d	♃ 15 3	♒	♊	8	9		31	2	☽ with ☿ a little win-
20	e	♂ 0 33	♐		23	10		29	3	☍ ☌ & ☿ dy, & wet,
21	f	♀ 23 33	♈	♋	7	11		27	4	showers and winds
22	g	☿ 2 35	♊		20	12		25	5	for about these three
23	a	☊ 9 49	♓	♌	3	13		23	6	☌ ☽ and ♄ or foure
24	b	2 Sun. aft. East.			16	14		21	7	days together cloudy
25	c	Mark Evang.			28	15		19	8	✶ ♄ ☿ □ ♃
26	d	♄ 6 48	♌	♍	10	16		17	9	☉ and great winds,
27	e	Terni begins			22	17		15	10	perhaps great show-
28	f	☾ Apogæon.		♎	4	8		13	11	✶ ☌ & ☽ ers also,
29	g	♂ 28	♏		16	19		10	12	rain like, but warm
30	a	♀ 4 3	♉		27	20		8	13	☍ ♀ and good and
										☽ spring time.

Roman Account		da:			Sun riseth		Sun sets.	Scripture Account.	
		1 — 5	16		6	44			
		8 — 5			6	58			
		16 — 4	47		7	13			
		24 — 4	33		7	27			
11	c							1 Month Nisan.	12 6
12	d								13 7
13	e								14 1
14	f								15 2
15	g								16 3
16	a								17 4
17	b								18 5
18	c								19 6
19	d								20 7
20	e								21 1
21	f								22 2
22	g								23 3
23	a								24 4
24	b								25 5
25	c								26 6
26	d								27 7
27	e								28 1
28	f								29 2
29	g							2 Month Ziff.	1 3
30	a								2 4
1	b								3 5
2	c								4 6
3	d								5 7
4	e								6 1
5	f								7 2
6	g								8 3
7	a								9 4
8	b								10 5
9	c								11 6
10	d								12 7

Full moon 2 day, 14 minutes past 4 afternoone.
Last quarter 10 day, 12 minutes past 3 at morning.
New moon 16 day, 38 minutes past 6 afternoon.
First quarter 23 day, 7 minutes past 12 at midnight.

1	B	Philip & Jac	♏	9	21	♉	6	14	Cloudy weather with
2	C	♄ 7 8 ☊		22	22		4		□ ♄ & ☿ sudden
3	D	Invent. Cruc.	♐	4	23		1	15	and hasty showers be-
4	E	♅ 16 22 ♒		16	24		0	16	gin this month, and
5	F	♂ 25 56 ♏		29	24		57	17	then winds but sud-
6	G	☌ occidental	♑	11	25		54	18	☌ ☍ and ☉ denly,
7	A	☿ 13 7 ♉		24	26		52	19	great heat with thun-
8		4 Sun aft. East.	♒	7	27		49	20	der, rain and much
9	C	☿ Retrograde		21	28		46	21	lightning, calm and
10	D	in 15 15 ♊	♓	4	29		44	21	□ ♅ & ☽ temperate,
11	E	☉ enters ♊		18	♊		42	13	a serene air and fair
12	F	☊ 18 49 ♓	♈	3	1		39	14	weather, gentle and
13	G	☽ Perigæon		17	2		37	2	wholesome winds with
14	A	♄ 7 58 ☊	♉	1	3		35	2	much warmth a fertil
15		Rogat Sunday		17	4		31	27	☌ ☌ and ☿ season,
16	C	♅ 16 57 ♒	♊	2	5		30	28	*Apertio port.* caus-
17	D	♂ 21 48 ♏		16	6		28	●	sing many warm sho-
18	E	☿ 26 35 ♉	♋	1	7		25	2	wers refreshing the
19	F	Ascension day.		15	8		21	3	✶ ♄ and ⊕ earth,
20	G	☿ 11 52 ♊		20	9		19	4	*Apertio port.* warm
21	A	☊ 18 18 ♓	♌	12	10		17	5	rain and thunder per-
22	B	Exaudi		14	1		13	6	☌ ☉ & ☿ haps hail,
23	C	Vemu ends.	♍	7	12		10	7	very high and great
24	D	♄ 8 48 ☊		1	13		7	8	bluftring winds these
25	E	♅ Retrograde	♎	1	14		4	9	✶ ♄ and ☿ dayes,
26	F	in 17 6 ♒		12	15		2	10	windy & wet weather
27	G	☽ Apogæon		24	15		59	11	☌☍ & ☿ winds & rain
28	A	☽ 18 43 ♍	♍	6	16		56	12	△ ♅ & ☉ win. & fa.
29		Whitsunday.		18	17		53	13	✶ ♄ & ☿ cloudy air
30	C	☿ 11 16 ♊	♐	1	18		51	14	☌☽ & ☍ coruscations
31	D	☿ 6 55 ♊		13	19		48	15	☌ ☽ & ☿ a fair day.

Sun riseth		Sun Setteth.			
Day	ho. m.	Day	ho. m.		
1	4 27	1	7. 39		
8	4. 11	8	7. 49		
16	3. 52	16	8. 8		
24	3. 49	24	8. 11		

Roman Account.			Scripture Account.
11	ℰ	2 Mo. Ziff.	13 1
12	f		14 2
13	g		15 3
14	a		16 4
15	b		17 5
16	c		18 6
17	d		19 7
18	ℰ		20 1
19	f		21 2
20	g		22 3
21	a		23 4
22	b		24 5
23	c		25 6
24	d		26 7
25	ℰ		27 1
26	f		28 2
27	g		29 3
28	a	3 Mo. Sinan	1 4
29	b		2 5
30	c		3 6
31	d		4 7
June.			5 1
2	f		6 2
3	g		7 3
4	a		8 4
5	b		9 5
6	c		10 6
7	d		11 7
8	ℰ		12 1
9	f		13 2
10	g		14 3

June hath xxx. dayes.

Full Moon 1 day, near 3 in the morn.
Last quarter 8 day, 34 min. past 9 before noon.
New Moon 15 day, about 2 in the morne.
First quarter 22 day, at 5 in the afternoon.
Full Moon the last day, 52 min. past 2 in the after noon.

1	e	♄ 9 34 ♌	♐	25	♑	11 45	16	Faire, warm, and
2	f	♅ 17 0 ♒	♑	8	♒	42		very much dry
3	g	♂ 17 39 ♍		21	♓	39	17	✶ ♂ ☌ ☽ Weather
4	a	☿ direct.	♒	4	♈	36	18	△ ♅ ☌ ♀ ☿ very
5	b	Trinity Sun.		18	♉	33	19	faire and pleasing
6	c	♀ 19 51 ♎	♓	1	♊	30	20	season dring. forth
7	d	☿ 7 14 ♎		15	♋	27	21	the fr. of the earth.
8	e	☽ cum ♏		29	♌	25	22	□ ♀ ☌ ☽ Still fair
9	f	☽ Perigeon	♈	13	♍	23	23	and pleasant wea-
10	g	Terme begin.		27	♎	20	24	ther untill the 11
11	a	♂ Stationary	♉	11	♏	16	25	or 12 day of this
12	b	1 sun aft. Tri.		26	♐	13	26	moneth.
13	c	☽ with ☿	♊	10	♑	10	27	✶ ♄ ☌ ☿ Now
14	d	♂ direct.		25	♒	7	28	winds dry scor-
15	e	☿ in greatest	♋	9	♓	4	29	ching weather
16	f	dist. from ☉		23	♈	1	30	these many days
17	g	♄ 11 17 ♌	♌	6	♉	58	31	together.
18	a	♅ 16 15 ♒		20	♊	55	32	Still more wind
19	b	2 sun. aft. Tri	♍	2	♋	52	33	△ ♅ ☌ ☿ and
20	c	♂ 17 14 ♍		15	♌	50	34	some small showe-
21	d	♀ 8 15 ♋		27	♍	47	35	ers, & then faire &
22	e	☿ 20 28 ♎	♎	8	♎	44	36	pleasant weather
23	f	☽ Apogeon.		20	♏	41	37	untill the 24 day
24	g	John Bapt.	♏	2	♐	38	38	be past.
25	a	☽ with ♂		14	♑	35	39	□ ♄ ☌ ☽ Cloudy
26	b	3 sun. aft Tri.		28	♒	32	40	and dark air now,
27	c	♄ 12 26 ♌	♐	8	♓	29	41	♂ ♂ ☌ ☽ and wet
28	d	♅ 15 23 ♒		21	♈	26	42	rainy weather
29	e	Peter Apostle	♑	4	♉	23	43	△ ♂ ☌ ♆ aper. porr.
30	f	Terme ends.		17	♊	21	44	△ ☉ ☌ ♂ he. 5 min

Roman Account.		Sun riseth Day	Sun riseth ho. m.	Sun setteth Day	Sun setteth ho. m.	Scripture Account.	
		1	3. 48	1	8. 12		
		8	3. 45	8	8. 15		
		16	3. 45	16	8. 15		
		24	3. 48	24	8. 15		
11	a					3 Mo. Smau	15 4
12	b						16 5
13	c						17 6
14	d						18 7
15	e						19 1
16	f						20 2
17	g						21 3
18	a						22 4
19	b						23 5
20	c						24 6
21	d						25 7
22	e						26 1
23	f						27 2
24	g						28 3
25	a						29 4
26	b						30 5
27	c						1 6
28	d					4 Mo. Tamus.	2 7
29	e						3 1
30	f						4 2
July.							5 3
2	a						6 4
3	b						7 5
4	c						8 6
5	d						9 7
6	e						10 1
7	f						11 2
8	g						12 3
9	a						13 4
10	b						14 5

July hath xxxi. dayes.

Last quarter 7 day, 34 min. past 2 after noon.
New Moon 14 day, 46 min. past noon.
First quarter 22 day, 37 min past 10 before noon.
Full Moon 30 day, 11 min. past 1 in the morne.

1	g	♀ occidentall.	♒	1	19	♋	18	16 Clouds & winds.
2	a	Visit. Mar.		14	20		15	17 ☽ with ♃ the whe-
3	B	4 sun. aft. Tri.		28	21		12	18 heav. are besprink.
4	c	♄ 13 16 ♌	♓	12	22		9	19 with white clouds
5	d	♃ 14 40 ♒		26	23		6	20 △♀ & ☽ some gentle
6	e	♂ 20 15 ♍	♈	10	24		3	21 show. & small rain.
7	f	☽ Perigeon.		24	25		1	22 winds & wet with
8	g	♀ 29 9 ♋	♉	8	25		58	23 △♂ & ☿ warmth &
9	a	☿ 21 34 ♋		22	27		55	24 thun at this time.
10	B	5 sun. aft. Tri.	♊	6	27		52	25 ☍♄ & ♃ Impetuo.
11	c	♄ 14 8 ♌		20	28		50	26 A very great storm
12	d	♃ 13 50 ♒	♋	4	29		48	27 with hail & thund.
13	e	☿ occidentall.		20	♌		44	28 ☌☉ & ☿ Much wi.
14	f	♂ 22 50 ♍	♌	1	1		41	● & dry weather.
15	g	♀ 7 47 ♌		15	2		38	1 ☽ with ♄ Clo. again
16	a	☿ 6 19 ♌		28	3		35	2 □☽ & ♂ Wet and
17	B	6 sun. aft. Tri.	♍	10	4		31	3 win at this time.
18	c	♄ 15 2 ♌		22	5		28	4 A very scor. season
19	d	Dog days beg.	♎	5	6		26	5 ☍♃ to ♀ & ☿ ☌♀ & ☿
20	e	♃ 12 50 ♒		16	7		25	6 ☌♄ & ☿ Very hot.
21	f	☽ Apogeon.		28	8		22	7 ☌ ♄ & ♀ Winds.
22	g	Mary Mag.	♏	10	9		20	8 The season still
23	a	☽ with ♂		22	10		17	9 continues hot and
24	B	7 sun. aft. Tri.	♐	4	11		14	10 a little windy.
25	c	James Apost.		16	12		12	11 ☍☉ & ♃ A great
26	d	♃ 12 4 ♒		29	13		9	12 windy blust. Aire.
27	e	♂ 28 5 ♒	♑	1[illegible]	14		7	13 □♂ & ☿ Showers
28	f	♀ 23 49 ♌		25	15		4	14 now do follow
29	g	☿ 1 20 ♍	♒	9	16		2	15 ☌☉ & ♄ Aper. port.
30	a	♄ orientall.		23	17		0	○ Remis of heat, and
31	B	8 sun. aft. Tri.	♓	5	17		57	17 storms of haile.

Roman Account.		Sun riseth		Sun setteth.		Scripture Account.	
		Day	ho. m.	Day	ho. m.		
		1	3. 55		8. 5		
		8	4. 2		7. 58		
		16	4. 11	16	7. 49		
		24	4. 23	24	7. 37		
11	c					15	6
12	d					16	7
13	e					17	1
14	f					18	2
15	g					19	3
16	a					20	4
17	b					21	5
18	c					22	6
19	d					23	7
20	e					24	1
21	f					25	2
22	g					26	3
23	a					27	4
24	b					28	5
25	c					29	6
26	d					1	7
27	e					2	1
28	f					3	
29	g					4	3
30	a					5	4
31	b					6	5
Aug.							
2	c					7	6
3	d					8	7
4	e					9	1
5	f					10	2
6	g					11	3
7	a					12	4
8	b					13	5
9	c					14	6
10	d					15	7
						16	1

4 Mo. Tamus.

5 Mo. Abh

August hath xxxi. dayes.

Last quarter 5 day, 36 min. past 7 at night.
New Moon 13 day, 7 min past 1 in the morne.
First quarter 21 day, 51 min past 3 in the morne.
Full Moon 28 day, 48 min. past 10 before noon.

1	c	Lammas day.	♓	22	18	☊	55	18	♂ ☿ ☌ ☽ showers
2	d	☽ Perigeon.	♈	6	19		52	19	yet mild & gentle.
3	e	♄ 17 4 ☊		20	20		50	20	□ ♂ ☌ ♀ aper. por.
4	f	♅ 10 25 ♒	♉	4	21		48	21	Winds and wet.
5	g	♂ 2 26 ♐		19	22		45	22	△ ☿ ☌ ☽ dry and
6	a	♀ 4 55 ♍	♊	3	23		43	23	hot winds.
7	b	9 sun. aft. Tri.		16	24		40	24	✶ ♄ ☌ ☽ Faire
8	c	☿ 17 30 ♍	♋	1	25		38	25	temper. aire. God
9	d	♄ 17 50 ☊		14	26		36	26	✶ ♀ ☌ ☽ harvest
10	e	♅ 10 11 ♒		27	27		35	27	weather welc to
11	f	♂ 5 35 ♐	♌	10	28		35	28	♂ ♅ ☌ ☽ the count.
12	g	☉ eclipsed but		23	29		30	29	men. Some shew
13	a	inconspicuous.	♍	6	♍		28	●	□ ♂ ☌ ☽ of show.
14	b	10 sun. aft. Tri.		18	1		26	2	Heavens cloudy.
15	c	Assump. Mar,	♎	1	2		24	3	♂ ☿ ☌ ☽ Som gen.
16	d	♀ 17 16 ♍		13	3		22	4	and mild weeping.
17	e	☽ Apogeon.		25	4		20	5	Wet showers.
18	f	☿ 1 11 ♎	♏	6	5		18	6	✶ ♅ ☌ ♂ Some
19	g	Sebaldus.		18	6		16	7	Consultations and
20	a	♄ 19 13 ☊		30	7		14	8	controus claps.
21	b	11 sun. aft. Tr.	♐	12	8		12	9	Thunder & show.
22	c	♅ 8 55 ♒		24	9		10	10	□ ♀ ☌ ☽ and then
23	d	Dog days end.	♑	7	10		8	11	some pleas weath.
24	e	Barth. Apo.		20	11		7	12	△ ♅ ☌ ☿ Aper. por.
25	f	♂ 13 34 ♐	♒	3	12		5	13	Denoting great
26	g	♀ 20 37 ♍		17	13		3	14	win. & very much
27	a	☿ 10 58 ♎ ●	♓	1	14		2	15	blustring weather.
28	b	☽ Eclipsed		16	15		0	●	Dry and moving.
29	c	visible to us in	♈	1	15		59	17	□ ♂ ☌ ☉ Whirlw.
30	d	England.		15	16		57	18	with a frow. skye
31	e	☽ Apogeon.	♉	1	17		56	19	The month ends.

Sun riseth		Sun setteth.	
Day	ho. m.	Day	ho. m.
1	4. 15	1	7. 25
8	4. 48	8	. 12
16	5. 3	16	6. 52
24	5. 16	24	6. 42

Roman Account.		Scripture Account.	
11	f	5 Mo. Abh.	15 6
12	g		16 7
13	a		17 1
14	b		18 2
15	c		19 3
16	d		20 4
17	e		21 5
18	f		22 6
19	g		23 7
20	a		24 1
21	b		25 2
22	c		26 3
23	d		27 4
24	e		28 5
25	f		29 6
26	g		30 7
27	a	6 M. Ælul.	1 1
28	b		2 2
29	c		3 3
30	d		4 4
31	e		5 5
Sept.	f		6 6
2	g		7 7
3	a		8 1
4	b		9 2
5	c		10 3
6	d		11 4
7	e		12 5
8	f		13 6
9	g		14 7
10	a		15 1

September hath xxx. dayes.

Laſt quarter 4 day, 6 min. paſt 2 in the morne.
New Moon 11 day, 10 min. paſt 4 after noon.
Firſt quarter 19 day, 7 min. paſt 8 at night.
Full Moon 26 day, 1 min. paſt 8 at night.

1	f	♄ 20 41 ♌	♉	15	8	♍	54	20	☿ faire temperate
2	g	Veronicas.		29	19		53	21	△ ♃ ☌ ♀ and very
3	a	Cromwels vic.	♊	14	20		51	22	calme ſerene time,
4	b	13 ſun. aſt. Tri.		27	21		50	23	and it continues
5	c	♃ 7 51 ♒	♋	11	22		48	24	til this day be paſt.
6	d	♂ 21 1 ♐		24	23		47	25	△ ♄ ☌ ♂ Grand
7	e	♀ 24 57 ♎	♌	7	27		46	26	ſhowers, and ſuch
8	f	☿ 17 11 ♎		20	25		45	27	as pleaſe not every
9	g	Gorgonius.	♍	2	26		44	28	ones humour.
10	a	☾ cum ♈		15	27		43	29	☌ ♀ ☌ ☿ very
11	b	14 ſun. aſt. Tr.		26	28		42	☾	calme warm moiſt
12	c	♄ 21 57 ♌	♎	8	29		41	1	ſeaſon, and ſo its
13	d	♃ 7 29 ♒		21	♎		39	2	like to hold till
14	e	☽ Hypogeon.	♍	3	1		38	3	✶ ♄ ♀ raine and
15	f	♂ 26 52 ♐		15	2		37	4	wet weather.
16	g	♀ 25 34 ♎		26	3		36	5	□ ♄ ☌ ☽ Cloudy
17	a	☿ 13 17 ♎	♐	8	4		35	6	and moiſt Aire.
18	b	15 ſun. aſt. Tr.		20	5		34	7	Wheres like to be
19	c	☽ with Mars.	♑	2	6		33	8	✶ ☌ ☍ ? △ ☉ ☍ ♃
20	d	☿ orientall.		15	7		32	9	☌ ☉ ☍ ☿ win. & wet.
21	e	Matth. Apo.		28	8		31	10	Clouds & bluſtring
22	f	☽ with ♃	♒	12	9		31	11	△ ♃ ☌ ♀ weather,
23	g	♄ 23 6 ♌		25	10		30	12	& ſo it ſtill holds,
24	a	♃ 7 20 ♒	♓	9	11		30	13	and then a very
25	b	16 ſun. aſt. Tr.		22	12		29	14	△ ♂ ☍ ♀ warme
26	c	♃ Direct.	♈	5	3		28	15	□ ♃ ☌ ♀ time
27	d	♂ 5 1 ♍		2	4		28	16	doth ſupply us
28	e	☽ Pergeen.	♉	5	5		27	17	with the hopes of
29	f	Micha. Arch.		22	6		27	18	a better Spring,
30	g	☿ Direct.	♊	5	7		26	19	& ſo the mon. ends.

Roman Account.		Sun riseth Day	ho. m.	Sun setteth. Day	ho. m.	Scripture Account.
		1	5. 35	1	6. 21	
		8	5. 50	8	6. 10	
		16	6. 6	16	5. 54	
		24	6. 22	24	5. 38	
11	b					2
12	c					3
13	d					4
14	e					5
15	f					6
16	g					7
17	a					1
18	b					2
19	c					3
20	d					4
21	e					5
22	f					6
23	g					7
24	a					1
25	b					2
26	c					3
27	d					4
28	e					5
29	f					6
30	g					7
Oct.	b					1
2	b					2
3	c					3
4	d					4
5	e					5
6	f					6
7	g					7
8	a					
9	b					
10	c					3

6 M. Ælul. 16

7 M. Æthanim. 5

October hath xxxi. dayes.

Last quarter 3 day, 23 min. past 11 in the forenoon.
New Moon 11 day, 38 min. past 9 before noon.
First quarter 19 day, near 11 before noon.
Full Moon 26 day, 25 min. past 5 in the morne.

1	a	☿ 2 10 ♎	♊ 24	18	♎ 26	20	The month doth	
2	b	17 sun. aft. Tri.	♋ 7	19	26	21	☌ ☍ ✶ ☽ begin	
3	c	♄ 24 3 ♌	21	20	25	22	with showers.	
4	d	♅ 7 32 ♒	♌ 4	21	25	23	☌ ♅ ✶ ☽ Faire.	
5	e	♃ 7 35 ♍	17	22	25	24	☿ is now in his	
6	f	♀ 20 15 ♍	29	23	24	25	greatest Elongat.	
7	g	☽ with ♓	♍ 12	24	24	26	△ ☉ ✶ ♄ Raine.	
8	a	☿ 7 35 ♎	24	25	24	27	△ ♅ ✶ ☿ winds	
9	b	18 sun. aft. Tr.	♎ 6	26	24	28	very high, & great	
10	c	Gedeon.	18	27	24	29	□ ♄ ✶ ♀ showers	
11	d	☽ Apogeum.	30	28	24		many, and much	
12	e	Colman.	♏ 12	29	24	2	raine, yet warme	
13	f	♄ 24 53 ♌	24	♍	24	3	weather.	
14	g	♅ 8 6 ♒	♐ 5	1	24	4	△ ☌ ✶ ☿ day and	
15	a	♂ 17 42 ♍	17	2	24	5	hot, the season con-	
16	b	19 sun. aft. Tri.	29	3	24	6	sidered. and so it	
17	c	♀ 3 48 ♐	♍ 12	4	24	7	continueth	
18	d	Luke Evang.	24	5	24	8	✶ ♄ ✶ ☿	
19	e	☿ 23 54 ♎	♒ 7	6	24	9	✶ ♅ ✶ ♀ dry faire	
20	f	♄ 25 22 ♌	20	7	24	10	pleasant weather.	
21	g	♅ 8 40 ♒	♓ 4	8	23	11	□ ☉ ✶ ♅ Some	
22	a	♂ 22 47 ♍	18	9	25	12	vehement stormes	
23	b	20 sun. aft. Tr.	♈ 2	10	25	13	of wind are now	
24	c	Terme begins	17	11	26	14	blowing abroad,	
25	d	♀ 13 38 ♐	♉ 2	12	26	15	☌ ☿ ✶ ☽ and thus	
26	e	♁ 5 19 ♍	17	13	26	16	its likely to be a	
27	f	☽ Perigeon.	♊ 2	14	27	17	windy stormy	
28	g	Sim. & Jude	18	15	27	18	□ ♅ ✶ ☿ and	
29	a	♄ 25 54 ♌	♋ 2	16	28	19	blustring season	
30	b	21 sun. aft. Tri.	16	17	28	20	till this moneth	
31	c	♅ 9 43 ♒	♌ 1	18	29	21	sees a period.	

Roman Account.		Sun riseth. Day	ho. m.	Sun setteth. Day	ho. m.	Scripture Account.
		1	6. 38	1	5. 24	
		8	6. 48	8	5. 12	
		16	7. 5	6	4. 55	
		24	7. 21	24	4. 39	
11	d					174
12	e				7 Mo. Æth-	185
13	f				anim.	196
14	g					207
15	a					211
16	b					222
17	c					233
18	d					244
19	e					255
20	f					266
21	g					277
22	a					281
23	b					292
24	c				8 Mo. Bull.	13
25	d					24
26	e					35
27	f					46
28	g					57
29	a					61
30	b					72
31	c					83
Nove.						94
2	d					105
3	e					116
4	f					127
5	g					131
6	a					142
7	b					153
8	c					164
9	d					175
10	e					186

November hath xxx. dayes.

Laſt quarter 2 day, 22 min. paſt 1 in the morne.
New Moon 10 day, 11 min. paſt 4 in the morne.
Firſt quarter 17 day, 36 min. paſt 11 at night.
Full Moon 25 day, 26 min. paſt 1 in the morne.

1	d	All Saints.	♌	13	19	♍	30	21 A cold and
2	e	All Soules.		26	20		30	● ☽ with ♄ frosty
3	f	☽ with ♋	♍	9	21		3-	23 time with
4	g	♄ 26 11 ♌		21	22		32	24 △ ♄ ♀ some
5	a	Powd. Treal.	♎	3	23		33	25 Snow,
6	b	22 ſun. aſt. Tri.		15	24		33	26 and then a little
7	c	♅ 10 36 ♒		26	25		34	27 calmer.
8	d	☽ Apogeon.	♍	8	26		35	28 □ ☉ ☿ ♄ much
9	e	♂ 6 2 ♒		20	27		36	29 Snow □ ♄ ☿ ♀
10	f	♀ occidentall.	♐	2	28		37	♉ Or raine very
11	g	♀ 4 29 ♑		14	29		38	2 cold ♂ ☉ ☿ ♀
12	a	♀ 2 30 ♐		26	♐		39	3 winds and froſt,
13	b	23 ſun. aſt. Tri.	♑	9	1		40	4 and a bluſtring
14	c	☽ with ♋		21	2		41	5 Ayre. Froſt
15	d	♄ 26 32 ♌	♒	4	3		42	6 ſtill continues
16	e	♅ 11 54 ♒		17	4		43	7 untill this day.
17	f	♂ 12 0 ♒		30	5		44	8 ♂ ♅ ☿ ♂ now
18	g	♀ 13 2 ♑	♓	13	6		45	9 raine ✶ ♅ ☿ ♀
19	a	♀ 13 26 ♐		27	7		46	10 great winds.
20	b	24 ſun. aſt. Tr.	♈	11	8		47	11 ✶ ♂ ☿ ♀ dry.
21	c	♄ 26 38 ♌		26	9		48	12 froſts and very
22	d	☽ Perigeon.	♉	11	10		49	13 cold weather.
23	e	♅ 13 3 ♒		26	11		50	14 □ ♄ ☿ ☽ Cloudy
24	f	♂ 17 20 ♒	♊	11	12		51	15 and ſnow-like,
25	g	♀ 21 33 ♑		26	13		52	16 or cold raine.
26	a	♄ Retrograde	♋	11	14		53	17 ☌ ♀ ☿ ☽ brings
27	b	Advent ſund.		25	15		54	18 ſmall raine
28	c	☿ 27 26 ♐	♌	9	16		55	19 △ ♄ ☿ ☿ cold
29	d	Terme ends.		22	17		56	20 and windy.
30	e	Andrew Apo.	♍	5	18		57	21 Froſty weather.

Sun riseth		Sun setteth.	
Day	ho.m.	Day	ho.m.
1	7. 35	1	4. 25
8	7. 45	7	4. 15
16	7. 57	16	4. 3
24	8. 6	24	3. 34

Roman Account.			Scripture Account.
11	g		19 7
12	a	8 Mo.Bull.	20 1
13	b		21 2
14	c		22 3
15	d		23 4
16	e		24 5
17	f		25 6
18	g		26 7
19	a		27 1
20	b		28 2
21	c		29 3
22	d		1 4
23	e		2 5
24	f		3 6
25	g	9 M.Kiflin.	5 7
26	a		5 1
27	b		6 2
28	c		7 3
29	d		8 4
30	e		9 5
Dece.			10 6
2	f		11 7
3	g		12 1
4	a		13 2
5	b		14 3
6	c		15 4
7	d		16 5
8	e		17 6
9	f		18 7
10	g		19 1
			20 2

December hath xxxi. dayes.

Last quarter 1 day, 51 min. past 5 after noon.
New Moon the 9 day, 30 min. past 10 at night.
First quarter 17 day, 23 min. past 10 before noon.
Full Moon 24 day, 52 min. past 2 in the morne.
Last quarter 31 day, 52 min. past 5 after noon

1	f	♄ 26 37 ♌	♍	17	19	☽ 59	22	Cleare and frosty,
2	g	☿ 14 39 ♐		29	21	0	23	with faire and
3	a	♂ 24 3 ♐	♎	11	22	1	24	wholsome Aire.
4	b	1 sun. aft Adv.		23	23	2	25	
5	c	☽ Apogeon.	♍	5	24	3	25	
6	d	♀ 4 51 ♒		17	25	5	27	Cold raine.
7	e	☿ 11 21 ♍		29	26	6	28	☌ ♄ ✶ ♂
8	f	Conver. Mariæ.	☽	11	28	7	29	△ ☉ ✶ ♄
9	g	Joachimus.		23	28	9	30	Perhaps snow
10	a	♄ 26 29 ♌	♍	6	29	10	♋	if not raine.
11	b	2 sun. aft. Adv.		18	30	21	♌	✶ ☉ ✶ ♂
12	c	☿ 16 38 ♒	♒	1	1	11	3	Showers and
13	d	♂ 1 35 ♓		14	2	12	4	afterwards
14	e	♇ 14 26 ♒		27	3	14	5	frosts, now a
15	f	☿ 22 50 ♍	♓	10	4	15	6	gallant
16	g	☽ with ♋		24	5	16	7	☌ ☿ ✶ ♀
17	a	♄ 26 15 ♌	♈	7	6	17	8	cleare Aire,
18	b	3 sun. aft. Adv.		21	7	19	9	wholsome and
19	c	☿ Elon mar.	♉	6	8	20	10	cold too,
20	d	☽ Perigeon.		20	9	21	11	△ ♄ ✶ ☽ now
21	e	Thomas Ap.	♊	5	10	23	12	more cloudy.
22	f	Chrodegot.		19	11	24	13	□ ♂ & ☽
23	g	♄ 26 0 ♌	♋	4	12	25	14	Raine showers
24	a	☿ 19 10 ♒		18	13	27	15	rather then
25	b	Nat. Domini.	♌	3	14	28	16	☌ ♄ ✶ ♀ snow
26	c	Steph. Proto.		17	15	29	17	at this time,
27	d	John Evang.		30	16	30	18	and so with wind
28	e	Innocents.	♍	13	17	31	19	and wet, cold
29	f	☿ Retrograde		25	18	32	20	raw & somtime
30	g	♏ 1 30 ♓	♎	6	19	34	21	frosty weather.
31	a	♀ 4 17 ♓		20	20	35	22	This year endeth

Sun riſeth		Sun ſetteth.	
Day	ho.m.	Day	ho.m.
1	8. 12	1	3. 48
8	8. 15	8	3. 45
16	8. 14	16	3. 48
24	8. 11	24	3. 49

Roman Account.			Scripture Account.	
11	b		21	3
12	c		22	4
13	d		23	5
14	e		24	6
15	f		25	7
16	g		26	1
17	a		27	2
18	b		28	3
19	c		29	4
20	d		30	5
21	e		1	6
22	f		2	7
23	g		3	1
24	a		4	2
25	b		5	3
26	c		6	4
27	d		7	5
28	e		8	6
29	f		9	7
30	g		10	1
31	a		11	2
Janu.			12	3
1	c		13	4
2	d		14	5
3	e		15	6
4	f		16	7
5	g		17	1
6	a		18	2
7	b		19	3
8	c		20	4
9	d			
10	e			

9 M. Kiſliu

10 Mo. Tebeth.

The Radices of the middle Motions of the Planets, *January* 1. 165⅔ at Noon, in the Meridian of CAMBRIDGE.

	s	d	m	ſſ
The Progreſſion of the firſt Star of Aries from the Vernall Equinox, is	00	28	20	17
The meane Longitude of ☉	9	21	21	2
The Aphelion of the Sun	3	6	36	53
The meane Longitude of ☽	2	19	59	46
The Aphelion of ☽	6	5	9	16
The Node Aſcend: of ☽	11	25	45	18
The meane motion of ♄	4	4	39	36
The Aphelion of ♄	8	27	9	36
The Node Aſcend: of ♄	3	21	3	51
The meane Longitude of ♃	9	29	40	54
The Aphelion of ♃	6	8	46	25
The Node Aſcend: of ♃	3	5	37	16
The meane motion of ♂	6	0	59	27
The Aphelion of ♂	5	00	3	11
The Node Aſcend: of ♂	1	17	21	16
The meane Longitude of ♀	6	2	32	12
The Aphelion of ♀	10	5	9	58
The Node Aſcend: of ♀	2	13	30	36
The meane motion of ☿	1	3	37	9
The Aphelion of ☿	8	14	18	45
The Node Aſcend: of ☿	1	13	48	00

Fœlices Animæ quibus hæc cognoſcere primum
Inque Domos ſuperas ſcandere cura fuit:
Credibile eſt illos pariter vitiisq; jaciſq;
Altius Humanis exeruiſſe Caput.

Of Eclipſes this year 1653. And firſt what an Eclipſe is, how and when it happens.

TO ſpeak properly of an Eclips it is an obſcuration of light in the Sun, and a defect in the Moon; for firſt, an Eclips of the Sun is nothing elſe but direct interpoſition of the Moon betwixt our ſight and the Sun, for the Moon being a denſe ſolid body, not tranſparent but opacous, when ſhe comes betwixt the Sun and Earth, doth thereby hide more or leſſe of the Suns body from us, but this happens always at a Conjunction of Sol and Luna, and yet not at every Conjunction, but when the new Moon falls to be in or near the head or tayl of the Dragon. And it may happen that there may be two totall and centrall Eclipſes of the Sun in the ſpace of 6 moneths, the one before the Suns Apogeon, the other after, yet theſe Eclipſes cannot be univerſall, as an (Eclipſe of the Moon is) but may appear a great Eclipſe in on Climate, and in another a ſmall one, and in a third no Eclipſe at all, at the ſelf ſame inſtant of time, becauſe a Solar Eclipſe depends upon the Moons Parrallax which is different in every Climate, and the Suns magnitude exceeding the Earths, and the Earth being greater by far than the Moon, the Cone of the Earthes ſhadow cannot hinder the Suns body from appearing to every part of the Earth, but one part only ſhall obſerve an Eclipſe to be totall, and unto others, ſuch an Eclipſe, at the ſame time will not be ſo great an obſcuration, but for the better underſtanding of what hath been ſaid, obſerve the figure thereof, as it is here inſerted.

A Type Demonstrating the Suns Eclipse.

A. Is the Suns resplendent body, *D.* is the Moon, *B. C. E.* and *F.* are the Earth, so that by this Type it doth appear, that unto him that inhabits that part of the Earth where *C.* stands, the whole body of the Sun Eclipsed is hidden from his sight, and unto him whose habitation shall be where *E.* stands, half the Suns light and no more is hid from him, but unto him that dwelleth in *F.* there no part of the Suns body is hidden from him.

Astronomers have given these two rules whereby it may be known at the time of the visible Conjunction of the Luminaries, whether the Sun will be Eclipsed or not.

First, If the middle motion of the Moons Latitude at the time of the middle Conjunction of the Sun and Moon, be distant from the North node, which is the Dragons tayl, lesse than 20 degrees, 40 minutes, or from the South node or Dragons head, lesse than 11 degrees 22 minutes, the Sun may be Eclipsed at that Conjunction. The second rule is this.

Secondly, if the apparent Latitude of the Moon at the

the time of the visible Conjunction, be lesse than the summe of the Semidiameters of the Sun and Moon, the Sun will then be Eclipsed, but if it be a greater, there will not be an Eclipse at that time. Thus much for an Eclipse of the Sun, I proceed to those of the Moon.

Of the Moons Eclipse.

THe Moon gives the Earth light by reflecting the Suns light unto us, for she is of her self a dark body, and receiveth her light from the Sun; so that at whatsoever full Moon the two Luminaryes happen to be diametrically opposite, and the Earth directly between them, (which happens not at every full Moon) at such a time the Moon must necessarily suffer an Eclipse of her borrowed light, for the Earth being a thick solid body, casteth his shaddow to that part which is opposite to the Moon, so that by how much the Moons place at the oppositiō is more diametrical, by so much the more is the quantity of her darknesse augmented; to measure which quantity, Astronomers do divide the Diameters both of Sun and Moon into 12 equall parts, which are called points or digits, so that the more the Digits Eclipsed are, the greater the Eclipse or obscuration is, yet the Diameter of the Earths shaddow being greater than the Moons Diameter, it often happeneth, that the Moon being in the midst of the said shaddow which exactly answereth the Ecliptick line, not only her whole body is totally darkned, but the obscuration is much enlarged by the Moons entrance into the said shadow, & her long continuance there, and this is the reason why in Luner Eclipses the Digits Eclipsed are said to be above 12 at sometimes, for those digits are reckoned not according to the Moons Diameter, but by the quantity of the

Earths shaddow, which may sometimes extend to almost 23 digits, wherefore we usually reckon 3 sorts of Lunar Eclipses. The first partiall, when only some part of her body is darkned. The second when her whole body is darkned exactly, which is a totall Eclipse without continuance. The third totall with continuance, which is when she happens within the Earths shaddow more than 12 digits.

A Type of Lunar Eclipses.

In this Diagram you may observe what is meant by the former discourse of those 3 sorts of Lunar Eclipses, for here you may see when the same is totall, and when it is partiall, and when and how it happens that there is no Eclipse at all at the time of the opposition of the Luminaries, commonly called the full Moon; and wit all take notice, that all the difference ariseth most principally from the Moons Latitude, and her greater or lesser distance from the Ecliptick line at the time of an Eclipse.

As in Eclipses of the Sun, so likewise in these of the Moon, we have two rules to know when they happe, and they are as followeth.

Rule

Rule 1.

If at the time of the mean oppoſition or full Moon, her middle place be diſtant either frō the Dragons head, or Dragons tayl, leſſe than 1* degrees 12 min. either according or contrary to the ſucceſſion of ſigns, that full Moon will be Eclipſed.

As for Example, *At the middle time of the full Moon in March this year, the middle place of the Moon is 5 ſigns 22 degrees 5 min. and the place of the Dragons tayl 5 ſignes 22 deg. ſo that between the Moones place and her South node, is but 23 degrees or thereabouts, whereupon I conclude the Moon will be Eclipſed.*

The 2d. Rule is.

If at the time of the true full Moon her Latitude be leſs than the ſumme of her Semidiameter and the Earths ſhadow, the Moon will ſuffer an Eclipſe, but if greater, ſhe cannot be Eclipſed that full Moon.

Of Eclipſes this year.

HAving diſcourſed of Eclipſes in generall, and given Rules for the finding when they happē; I come now to inquire and ſet down how many Eclipſes we ſhall have this year according to thoſe rules before given; and thus I begin.

Firſt then we conclude that there will be an Eclipſe of the Sun *February* the 17, but it will not be viſible to us, becauſe the Moons Latitude is South, and becauſe the time of the apparent Conjunction is about 10 minutes paſt 5 at night, which time both the Luminaries are ſubterranean or under the Earth.

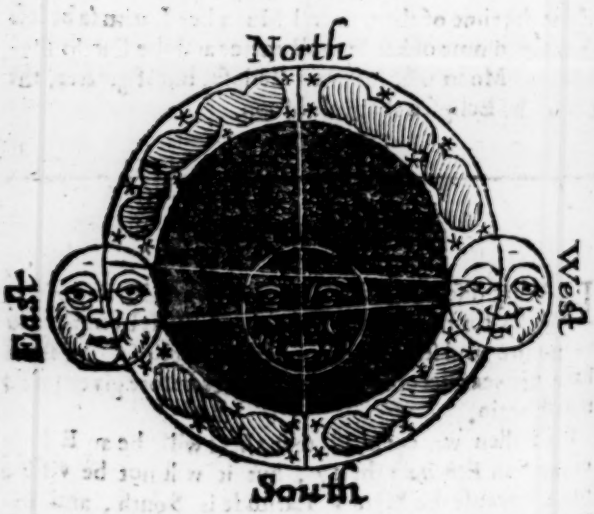
The ſecond will be that Eclipſe of the Moon, before mentioned, which we proved will happen this year

1653 of which we farther say, March the fourth day.

		h.	mi.	Sec.
The beginning of the Eclipse	is at	1	48	20
The beginning of totall darkneß		2	58	43
The middle or greateſt obſcuration		3	52	39
The true full Moon		3	54	17
The end of totall darkneſſe		4	46	35
The full recovery of light		5	56	58

in the morning.

The Type of the Eclipſe.



This Eclips of the Moon will be viſible at *Cambridge* if the ayr be clear from the beginning to the end, but its meridian is diſtant from hence towards the weſt 3 hours 53 min. under the Longitude of the Earth 322 degrees

50 min. and therefore those will behold it in their meridian who inhabit in *Brazilia*, and in the farthest Western parts of *Gronland*, and in the Eastern parts of *Estotland* indeed it will be visible to most part of Europe, in *France*, *Spain*, *England*, *Ireland*, *Scotland*, and *Island*, but the inhabitants of *Thrace*, *Misia*, *Asia minor*, *Syria*, and *Persia* shall see little or nothing thereof.

The third is an Eclipse of the Sun which happeneth upon the 12 of August, but because it is in the night time we cannot see it, unlesse we could see through the Earth, yet it will be a little conspicuous in the North-west parts from us, as in North *America*, and such places as ly under the Artique Circle, and have 238 deg. in Longitude.

The fourth Eclipse is Lunar, upon March 28 near 11 a clock before noon it hapneth, but it will not be seen by us because the Moon is subterranean, but our Antipodes may see it, and those whose meridians differ from us 6 hours either East or West, as in *East-India*, *China*, *Mexico*, the East part of *Peru*, the Ilands of *Sumatra*, *Borneo*, *Java*, and many others, the quantity will be 18 digits, & the whole continuance 3 ho. and 3 4th. parts of an houre. If any man expects predictions from me of the effects of these 4 Eclipses, I must tell them *Eclipses nihil nocent iis quibus non videntur*, which will excuse my neglect of 3 of them, and for the other I refer them to the pens of others.

Of the four quarters of a year, and first of the Spring.

THe Spring quarter, or the Vernall Equinox initiates at that moment wherein the Sun enters the first point of Aries, & it continues till he hath passed through

the

the 3 vernall signs, Aries, Taurus, and Gemini.

The Time of the Suns Ingress into the vernal Equinox is March,

9 day, 14hours, 8 minutes *T. M.*
9 day, 14 hours, 4 minutes *T. A*

The Summer Solstice begins when Sol makes his ingress into the Tropick of Cancer making us the longest days and shortest nights, it happens in *June*,

10 day, 17 houres, 12 minutes *T. M.*
10 day, 17 houres, 11 minutes *T. A.*

The Harvest or Autumnall quarter begins when the Sun enters the Equinoctiall Sign Libra, and that will be in *September*.

12 day, 8 houres, 5 minutes *T. M.*
12 day, 8 houres, 9 minutes *T. A.*

The Winter quarter begins when Sol makes his first Ingresse into the tropicall Sign Capricorne, which is *December*,

10 day, 19 houres, 37 min. *T. M.*
10 day, 19 hours. 37 min. *T. A.*

A Table shewing the time when the Moon will be full South this year every day, and the quantity of her shining, whereby with the help of the precedent Diary, and the directions following, the time of full Sea, and hour of the Night may be found out.

Dayes

Dayes	H.	M.	Dayes.		H.	M.
1 29	12	48	1	16	0	48
2 28	1	36	2	17	1	36
3 27	2	24	3	18	2	24
4 26	3	12	4	19	3	12
5 25	4	00	5	20	4	00
6 24	5	48	6	21	4	48
7 23	6	36	7	22	5	36
8 22	6	24	8	23	6	24
9 21	7	12	9	24	7	12
10 20	8	00	10	25	8	00
11 19	8	48	11	26	8	48
12 18	9	36	12	27	9	36
13 17	10	24	13	28	10	24
14 16	11	12	14	29	11	12
15 15	12	00	15	30	12	00
The Moons age for her shining.	The Moons shining.		The Moons age for her Southing.		The Moons coming to the South.	

To find the moons shining.

ENter the Table with the Moons age (which you may read and find exactly in the 6 Colum of my Diary) after I say this Table in the first Column towards the left hand, and in the second Column you shall have your desire.

Example.

January 20 I desire to know the just quantity of the Moons shining, I find the Moons age then to be 2 dayes, which which entring this table, I find that she shineth 1 hour, 36 minutes.

To

To find the time of the Moons coming South.

ENter the table for the Moons age in the 3 Column, & over against it in the 4th. Column you shall have the time of her culmination, or the exact moment of her coming to the Meridian or South Point.

Example.

January 20 the Moons age is 2 days, I enter the 3 Col. with 2 dayes, and over against it in the 4 col. I find 1.36. that is the Moon cometh due South that day at 36 min past 1.

To find the time of the Moons Rising and Setting.

FIrst for her Rising, if the Moon encrease, adde the hour and minute of her shining to the hour and minute of the Suns arising, and that shall give you the time of her rising; but if the Moon decrease (which she alwayes doth when she is above 15 days old) then you must substract the time of her shining, from the time of the Suns rising, and the remainder gives you the time of her Rising.

To find the Moons Setting, you must at any time when the Moon encreaseth adde the hour and minute of her shining to the time of the Suns setting, and the product shews the time of her Setting.

But if the Moon decrease, you must then substract her shining, from the time of the Suns setting, and the time of her setting is the remainder. But withall take notice, that if the time of the Moons shining be more than the time of the Suns setting, you must adde 24 hours to the hours and minutes of the Suns setting, that so substraction may be made, and the time of her Setting will emerge.

To find the hour of the night by the Moon.

Having found according to those directions already given the time of the Moons coming to the south upon any night wherein you desire to know the hour, repair to a Sun dyall, and there observe how many hours and minutes the shaddow wanteth of the line of 12, and then substract those hours and minutes from the time of the Moons coming South, and what doth remain is the true hour of the night; but if the shaddow of the Moon on the Sun Dyall be past the hour of 12, adde those hours and minutes to the time of the Moons Southing, and the time of the night will emerge.

A Tyde Table.

	h.	m.
Tinborough, Southampton, Portsmouth.	0	00
Chester, Malden, Aberdeen, Redban.	0	45
Gravesend, Romney, Tenet, Ramkins.	1	30
London, Tinmouth, Hartlepooll, Amsterdam.	3	0
Berwick, Ostend, Scarborough, Flushing.	3	45
Leith, Leith, Dunbar, Narbon, Silly.	4	30
Newcastle, Falmouth, Humber, Foy.	5	15
Lin, Antwerp, Plymouth, Hull.	6	0
Estoll, Lunion, Foulness.	6	45
Milford, Bridgewater, Northcoast.	7	30
Portland, Peterport, Hartflew, Hague.	8	15
Dover, Yarmouth, Harwich, Dublin.	10	30
Dellis, Rye, Winchelsey, Calshut.	11	15

The use by Example.

March 6. The Moons age is 17 days, she comes to the South at 36 min. past 1 a clock, I desire to know the time of full sea at Newcastle, *against* Newcastle *in this table 6.15 m. is set, which I adde to the time of the Moons Southing, and it gives me 6 h. 51 m. for the time of full sea at* Newc. *do so in all the rest.*

Of

Of the Artificiall day, and how to find the length thereof, with the time of the Suns rising and setting for the latitude of Cambridge.

The place of the Sun.					
♈	0	♎	6	0	♎ 0 ♈
	3		6	6	27
	6		6	12	24
	9		6	18	21
	12		6	24	18
	15		6	31	15
	18		6	37	12
	21		6	43	9
	24		6	49	6
	27		6	55	3
♉	0	♍	7	0	♍ 0 ♓
	3		7	1	27
	6		7	7	24
	9		7	12	21
	12		7	17	18
	15		7	22	15
	18		7	28	12
	21		7	34	9
	24		7	39	6
	27		7	43	3
♊	0	♐	7	48	♑ 0 ♒
	3		7	52	27
	6		8	0	24
	9		8	4	21
	12		8	7	18
	15		8	9	15
	18		8	11	12
	21		8	13	9
	24		8	14	6
	27		8	15	3
♋	0	♑	8	15	♋ 0 ♑

An Artificiall day is an Arch of the Naturall day, and contains that space of time which is between the rising of the Sun to his going down, which our experience informs us is both equall and unequall, the mean and equall Artificiall day doth always contain 12 hours, and of this length the days always are when the Sun is in the Equinoctiall Circle, that is when he enters the first point either of Aries in March, or of Libra in September: but when the Sun is in any of the other signs, or out of the Equinoctial Line, then is the Artificiall day unequall, and it is either longer or shorter than 12 hours, according to the Suns Arch and Parallell.

Now to find out the true and just length of the Artificiall day at any time I have set down this table, whereby may be known the quantity of dayes and nights, for the understanding whereof you must know, that in the 6 Northern signs which are ♈ ♉ ♊ ♋ ♌ ♍ is placed the Semidiurnall arch

half length of the day, and in the 6 Southern signs which are ♎ ♏ ♐ ♑ ♒ ♓ is placed the Seminocturnall, or half length of the night, the Sun being in any of those signes. Thus much premised, do thus,

To find the Semid: and Semin: Arch Suns rising and setting, &c.

First look into the Diary, and there find in the 5 colu. the Suns true place, and then repair to this table, and enter with the sign and degree of the Sun, before found in the 1 colu. and right against it in the 2 colu. you shall have the Semidiurnall arch if it be a Northern, and the Seminocturnall if it be a Southern sign, and so likewise if you will enter the table in the 3 colu which you will often have occasion to do, and if you double the Semidiurnall arch, you have the length of the day, which if you substract from 24 hours, gives the length of the night, and so if when the Sun is in a Southern sign you double the Seminocturnal arch you have the length of the night, which bisected shews the exact time of Sun setting, but all this I shall make plain in 2 or 3 Examples.

Example 1. *May the 6 I desire to know the length of the day, I look into the Diary and find that the Sun is in 15 degrees of ♉, this is a Northern Sign, I enter this table, and in the 1 colu. I find under ♉ 27 and right against that in the second column I find 7 hours 43 min. which is the Semidiurnall arch, and that doubled makes 15 hours, 26 min. which is the the time from Sun rising to his going down, and the true length of the artificiall day when ☉ is in 27 ♉.*

Example 2.

Jan. 21 I desire to know the length of the night, the Sun is then in 12 of ♒, with this I enter the table in the

3 colu. and right against it I find 7.34. which is (becau the Sun is in a Southern sign) the Seminocturnall arch and therefore the length of the whole night is 15 ho. 8 m which substracted from 24 gives the length of the day ho. 52 min. and this bisected gives the time of Sun setting to be at 4 hours 26 minutes.

An Almanack for 14 years, beginning Anno 1653. a ending Anno 1666, shewing the Dominicall Letter, Prime, Epact, and all the moveable Feasts

The year of our L	Domin. Letter.	Prime.	Epact.	Shrove-Sunday	Easter day.	Rogation Sunday	Ascensio day.	Whit-Sunday.	Advent Sunday.
1653	E	1	11	Feb. 20	April 10	M 15	Ma. 9	May 29	Nov.
1654	A	2	22	5	Mar. 26	A. 30	4	1	Dec.
1655	G	3	3	25	Apr. 15	M. 21	24	June 3	2
165	E	4	14	17	6	11	15	May 25	Nov.
1657	D	5	25	8	Mar. 29	3	7	17	29
1658	C	6	6	21	Apr. 11	16	20	30	28
1659	B	7	17	13	3	8	12	22	27
1660	A G	8	28	March 4	22	27	31	June 10	Dec.
1661	F	9	9	Febr. 24	14	19	23	2	1
1662	E	10	20	9	Mar. 30	4	8	May 18	Nov.
1663	D	11	1	Mar. 1.	Apr. 19	24	28	June 7	29
1664	C B	12	12	Feb. 21	10	15	19	May 29	27
1665	A	13	23	5	Mar 26	A. 30	4	14	Dece
1666	G	14	4	25	Apr. 15	M. 20	24	June 7	2

The use of this Almanack.

First find out the year of our Lord in which you would know the moveable feasts and other vulgar notes in the first column of the table, and in the subsequent columns under their severall heads, you shall have your desire.

Example.

In the year 1654 you have Domin. Letter A. Prime

E

Epact 22. Shrove Sunday Febr. 5. Easter day March 26. Roga. Aprill 30. Ascens. May 4. &c.

Thus may you Antedate the Backward year,
And make the time before it comes appear.

Of Twilight.

C*Repusculum*, or Twilight begins in the morning, when the Sun ascends within 18 degrees of the Orientall Horizon, because then by the near accesse of the Sun to the upper hemisphere, some light begins to appear, which is usually called day-breaking, and this Twilight continues also till the Sun is descended 18 degrees below the Horison in the evening, because till the Sun be so far receded from us, there is some appearance of light; so that Astronomers conclude it from the 12 of May to the 12 of Iuly to be continually day, because all that time the Sun never descendeth above 18 degrees below the Horison with us at *Cambridge*.

Now if you would know the quantity of Twilight for any other time of the year, I have set down this Table, which doth shew it exactly at the first sight, the place of the Sunne in the *Zodiack* supposed to be shown.

The

The Table.

		h.	m.
♉	♍	2	17
♈	♎	1	54
♓	♏	1	55
♐	♑	2	6
	♒	2	13

Explanation.

Seek the Sign the Sun is in in the Diary, and against that Sign in this Table is the quantity of twilight set down.

Example.

Aprill 10. ☉ *enters* ♉ *and August* 13 *he enters* ♍ *against* ♉ *and* ♍ *I find* 2 *hours* 17 *minutes, which is the true quantity of Twilight both Morning and Evening.*

Postscript.

READER, though this time be the first thou hast seen my name abroad to a work of this Nature, yet I hope it will find thy candid interpretation and reception, which will encourage the Author to remain thine

Philastrogus.